

IFW

THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Ching-Hsu YANG Confirmation No: 1902
Appl. No. : 10/657,132
Filed : September 9, 2003
Title : THERMAL ENHANCE PACKAGE WITH UNIVERSAL
HEAT SPREADER

TC/A.U. : 2812
Examiner : A. Roman

Docket No.: : YANG3150/REF
Customer No: : 23364

RESPONSE TO RESTRICTION REQUIREMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

This is in response to the Official Action of March 16, 2005, in connection with the above identified application.

The Official Action is a restriction requirement in which it is urged that there are two separate and distinct inventions claimed in this application. Applicants elect the Group I invention which includes claims 1-17.

In addition, Applicant is required to make an election of a single disclosed species for prosecution on the merits. Currently, claims 1, 3-12 and 15-23 are indicated to be generic. Applicant elects the Specie I, Figure 4 which is readable on claims 1 and 3-17. This election is made with traverse in view of the following comments.

Claim 1 reads on both figures 4 and 5. In figure 5, the universal heat spreader 38 is in the form of a cap (claim 2), and the universal heat spreader 38 connects to the carrier 31. And, in figure 4, the universal heat spreader 35 is a flat shape (on page 5, lines 14-15). The stiffener ring 39 also connects to the carrier 31. The universal heat spreader 35 and the stiffener ring 39 combine to become a cap-like form. Figures 4 and 5 share the carrier, the semiconductor chip, the conductive devices, the heat transmission pin, the heat transmission adhesive, the filler, the conductive devices and the solder balls, differing only in the universal heat spreader and the stiffener ring.


Appl. No. 10/657,132
Amendment dated: April 14, 2005
Reply to OA of: March 16, 2005

Accordingly, it is believed that both Groups I and II do relate to a single general inventive concept and withdrawal of the restriction is most respectfully requested.

In view of the election of the Group I invention and Specie I, with traverse, an early and favorable action on the merits is now believed to be in order and is most respectfully requested.

Respectfully submitted,

BACON & THOMAS, PLLC

By: 
Richard E. Fichter
Registration No. 26,382

625 Slaters Lane, Fourth Floor
Alexandria, Virginia 22314
Phone: (703) 683-0500
Facsimile: (703) 683-1080

REF/kdd
ResponsetoRestrictRequirement.wtraverse.wpd

April 14, 2005